

Response to Intervention for Elementary-Middle Math Professional Development Lesson			
<b><u>Screening and Progress Monitoring</u></b>			
<i>Step</i>	<i>Description</i>	<i>Time</i>	<i>Target Audience (All, Educational leaders, teachers)</i>
<b>Materials Needed</b>	Pencils, small, grade level groups, markers, chart paper	<b>82 min total</b>	
<b>Introduction</b>	Use (slides # 1-3)	5-7 min	All
<b>View: Video: Multimedia Overview: <i>Response to Intervention in Elementary and Middle Math</i></b>	(Slide # 4) Use this multimedia overview to learn about the 4 recommended practices to support the Rtl in Elementary and Middle Math	4:10 min.	All
<b>Share</b>	(Slide # 5) Handout #1: Montana Response to Intervention: RTI Framework	10 min	All
<b>Share</b>	(Slide # 6, 7) What are the key concepts of Rtl in Elem and Middle Math?	2-3 min.	All
<b>View : Multimedia Overview Screening and Progress Monitoring in Math</b>	(Slide # 8, 9) View multimedia overview of screening and progress monitoring in math	5:34 min	All
<b>Examine Montana Assessment System document</b>	(Slide # 10) Handout # 2: Jigsaw activity for Montana Comprehensive Assessment system document	12-15 min	All
<b>View: Expert Interview Universal Screening</b>	(Slide # 11 )Use this video interview to show the critical information on screening and progress monitoring	5:47 min.	All

<b>View Montana Resource list</b>	(Slide #12) After Video: Scan (Handout #3) resource list to examine characteristics of screening and progress monitoring tools on the list	10 min.	All
<b>Video: Expert Video, Functions of Progress Monitoring</b>	(Slide #13 ) Listen to Dr. Foegen talk about effective methods of using progress monitoring tools	4:34 min.	All
<b>Audio: Monitoring student progress</b>	(Slide #14) Listen to audio and record actions taken by teacher and team.  Think Pair Share recorded information	14 min	All
<b>Share the Self Assessment Tool</b>	(Slide # 15) Handout #4: Examine self assessment tool to determine areas of focus	5 min	All
<b><u>Foundations of Arithmetic</u></b>			
<i>Step</i>	<i>Description</i>	<i>Time</i>	<i>Target Audience (All, Educational leaders, teachers)</i>
<b>Materials Needed</b>	Pencils, small groups, markers, chart paper	<b>117 min total</b>	
<b>Introduction</b>	(Slide # 16) Introduce recommendation	1-2 min	All
<b>Introduce</b>	(Slide #17) Introduce the Key concepts from the Foundations of Arithmetic	1-2	All
<b>View: Multi Media Overview, Foundations of Arithmetic</b>	(Slide # 18) View video to learn about the content of math interventions	5:47 min	All
<b>Share</b>	(Slide # 19, 20) Review recommended content for math interventions	4 min	All
<b>Jigsaw</b>	(Slide # 20) Handout #5: Jigsaw synopsis of empirical research on teaching mathematics to low achieving students	15 min	All
<b>View: Expert Interview, Math Content for Struggling Readers by Sybilla Beckman</b>	(Slide #21) Listen for critical content that should be taught to struggling students  Think Pair Share critical content	5:49 min  5 min	All
<b>Share</b>	(Slide #23- 24) As a confirmation, share content on slides	5 min	All
<b>Share</b>	(Slide# 25, 26,) Montana State Standards (excerpts)	6 min	All

<b>Activity</b>	(Slide # 27) Handout # 6: Give participants experience in working with Kindergarten activity with whole numbers	5 min	All
<b>Share</b>	(Slide# 28) Montana State Standards (excerpts)	1 min	All
<b>View: Expert video- Word Problems by Sybilla Beckman</b>	(Slide # 29) Show expert video on word problems. After video, Think Pair Share	5:31 min 3 min.	All
<b>Share Four Square Graphic Organizer</b>	(Slide #30) Handout # 7: Discuss 4 Square organizer. Prepare participants to record information during the audio	3 min	All
<b>Listen to Audio: Re-teaching Place Value</b>	(Slide # 31) Listen to Audio	5:42 min	All
<b>Inside/Outside Circle</b>	(Slide # 32) Facilitate an Inside/Outside circle. Participants share contents of each square with one partner	20 min	All
<b>Think Pair Share</b>	(Slide # 33) Think Pair Share two new or confirmed learnings from session	5 min	All
<b><u>Intentional Teaching</u></b>			
<i>Step</i>	<i>Description</i>	<i>Time</i>	<i>Target Audience (All, Educational leaders, teachers)</i>
<b>Materials</b>	Chart paper, Markers, small groups, chart paper, M & M candy	<b>85 min total</b>	
<b>Introduction</b>	(Slide #34) Introduce recommendation	1-2 min	All
<b>Discuss</b>	(Slide # 35) Share key concepts for the Intentional Teaching recommendation	1-2 min	All
<b>Listen to Multi-media overview</b>	(Slide #36) Listen to overview and record either the characteristics of explicit instruction or key features in using concrete examples, depending on the numbering off	6:31 min	All
<b>Activity</b>	(Slide #37) M & M activity for sharing key features of explicit instruction and using concrete examples	15 min	All
<b>View Video: Expert Interview Explicit Instruction by Bradley Witzel</b>	(Slide # 38) Watch video on explicit instruction	4:55 min	All
<b>Listen to Audio: Explicit</b>	(Slide # 39) Listen to Audio on Explicit		All

<b>Teaching in the Fifth-Grade Math Core</b>	Teaching  Think Pair Share	4:06 min  10 min	
<b>Review</b>	(Slide # 40) Review the steps discussed on the audio to be sure participants have detailed information	3 min	All
<b>Visual Representations: Summary report on Concrete-Representational-Abstract (CRA) Instructional Approach</b>	(Slide # 41) Handout #8: Scan Summary report in preparation for listening to the video	4 min	All
<b>View Expert Interview: Visual Representations</b>	(Slide #42-43) View Video.  After video, recap key components from video	4:04 min  6 min	All
<b>Prepare for Audio</b>	(Slide #44) Handout # 9: Share the recording table in preparation for listening to Audio	2 min	All
<b>Listen to Audio: Concrete to Abstract</b>	(Slide # 44) Share Audio	6:42 min	All
<b>Share</b>	(Slide # 45) Share information and chart common responses in table group	10 min	All
<b>Examine: Planning for Visual Representation</b>	(Slide #46) Handout # 10: Scan self assessment for planning for visual representation. Think Pair Share how they could use this chart in their school	5 min	All
<b><u>Rtl Implementation</u></b>			
<i>Steps</i>	<i>Description</i>	<i>Time</i>	<i>Target Audience (All, Educational leaders, teachers)</i>
<b>Materials</b>	Pencils, small groups	<b>73 min total</b>	
<b>Introduction</b>	(Slide #47) Introduce new recommendation	1-2 min	All
<b>Discuss</b>	(Slide # 48) Key Concepts	1-2 min	All
<b>View Video: Expert Interview The Phases of Rtl Implementation by Dr.</b>	(Slide # 49) Listen for three main concepts shared in the expert interview	6:12 min	All

<b>David Tilly</b>			
<b>Discussion</b>	(Slide # 50) Think Pair Share: Three important concepts with phases of implementation	5 min	All
<b>Review</b>	(Slide #51) Review three concepts to be sure participants understand them	5 min	All
<b>View Video: Charting the Path</b>	(Slide #52) Listen to a principal talk about progression of implementation in a school  After video: On chart, paper, table group records potential pitfalls and recommendations to consider	4:38 min  15 min	All
<b>Review</b>	(Slide # 53) Review recommendations and have tables see if they have captured most of the recommendations	3 min	All
<b>View Video: Principal's Role in Instructional Decision Making</b>	(Slide # 54) View Video:  While listening to video, participants record actions taken by principal	5:45 min	All
<b>Discuss</b>	(Slide # 55) Chart key actions discussed in video by the principal. Select one action that is happening in your school or that you would like to see happen	15 min	All
<b>Activity</b>	(Slide # 56) Handout # 11: Scan self report and discuss how this tool could be of value in current school or district	10 min	All